

CLAIMS

What is claimed is:

5

1. An apparatus for use in sitting in vehicle for travel, comprising:

a base fixed to a vehicle;

a seat pan moveably secured with the base;

10

a back rest moveably secured with the base;

the seat pan includes a first portion and a second portion, wherein the first portion is rotationally secured relative to the second portion, such that the first portion can be rotationally positioned in a plurality of positions
15 relative to the second portion.

2. The apparatus as claimed in claim 1, wherein the seat pan is moveably secured with the base such that the seat pan moves generally horizontal relative to the
20 base.

3. The apparatus as claimed in claim 2, wherein the back rest is moveably secured with the base such that a lower portion of the back rest pivots as the seat pan is
25 moved.

4. The apparatus as claimed in claim 1, wherein the first portion is rotationally secured such that in a first position the first portion of the seat pan is in
30 alignment with the second portion and in a second position the first portion is out of alignment with the second

portion such that a distal end furthest from the second portion is below a proximal end proximate the second portion.

5 5. The apparatus as claimed in claim 4, wherein the first portion is rotationally secured such that in a third position the first portion is out of alignment with the second portion such that the distal end is above the proximal end proximate the second portion.

10

 6. The apparatus as claimed in claim 1, further comprising a first track fixed with the base, wherein the seat pan is mounted with the first track such that the seat pan is movably secured with the base allowing the seat pan to slide along the first track.

15

 7. The apparatus as claimed in claim 1, further comprising a pivot arm secured with the base proximate a first end of the pivot arm and secured with the seat pan proximate a second end of the pivot arm, wherein the pivot arm pivots about the first end moving the front portion of the seat pan as the seat pan is moved.

20

 8. An apparatus for sitting in a vehicle, comprising:

25

 a base;

 a back secured with the base;

 a seat pan secured with the base; and

 the seat pan includes a first portion and a second portion, wherein the first portion is configured to pivot relative to the second portion, such that the first portion

30

of the seat pan pivots allowing a distal end of the first portion positioned away from the second portion to pivot so that the distal end can be moved out of a relative alignment with the second portion.

5

9. The seat as claimed in claim 8, wherein the seat pan is movably secured with the base wherein the seat pan moves generally horizontal relative to the base.

10

10. The seat as claimed in claim 9, wherein the back is pivotably secured at a first pivot point with the base wherein a lower portion of the back proximate the seat pan pivots with the horizontal movement of the seat pan.

15

11. The seat as claimed in claim 10, wherein the back includes a back frame pivotably secured at a second pivot point with the base such that the back pivots at the second pivot point causing an upper portion of the back to move in a first direction when a force exceeding a

20

predefined level is applied to the back in the first direction.

12. The seat as claimed in claim 9, wherein the distal end of the first portion of the seat pan pivots out of alignment with the second portion and towards a floor upon which the base is supported when the seat pan is moved generally horizontally in a first direction.

25

13. The seat as claimed in claim 8, wherein the first portion of the seat pan pivots such that the distant end extends above the second portion of the seat pan.

30

14. The seat as claimed in claim 13, wherein the first portion of the seat pan pivots such that the first portion is positioned above the second portion of the seat pan.
5

15. A method for use in manufacturing a seat for use in a vehicle, comprising:
pivotably securing a first portion of a seat pan
10 with a base;
movably securing a second portion of the seat pan with the base proximate the first portion, wherein the second portion is movably secured such that the second portion of the seat pan moves along an axis;
15 securing a back frame with the base; and
pivotably securing a back rest with the back frame such that a lower portion of the back rest pivots as the second portion of the seat pan is moved along the axis.

20 16. The method as claimed in claim 15, wherein the securing back frame includes rotationally securing the back frame with the base such that the back frame at least partially rotates relative with the base when a force of at least a predefined level is applied in a first direction.

25 17. The method as claimed in claim 15, wherein pivotably securing the first portion of the seat pan with the base includes securing the first portion such that the first portion pivots out of alignment with the second
30 portion of the seat pan.